

**FIELD OPERATIONS DIVISION  
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**TOXICITY TEST REPORT SUMMARY**

**1. GENERAL:**

NPDES PERMIT NO.:

DSN:

COUNTY:

Permittee:

Facility Name:

Agent submitting Report:

Lab Conducting Toxicity Test(s):

Months To Test:

This Report for Toxicity Test(s) Required for the Month of:

Scheduled Test(s): Yes

No

Accelerated Test(s):

Yes

No

Accelerated Test Number

of

For Failed Scheduled Test Date:

Test Type Required:

-Hr Acute Screening:

-Hr Acute Definitive:

Short-term Chronic Screening:

Short-term Chronic Definitive:

Test Organism: *Pimephales promelas*

Test Organism: *Ceriodaphnia dubia*

Sam No.	Date/Time MM/DD/YY	Start HH:MM	Date/Time MM/DD/YY	Ended	Control Valid	Date/Time MM/DD/YY	Start	Date/Time MM/DD/YY	Ended HH:MM	Control Valid

**2A. SUMMARY OF RESULTS FOR SCREENING TEST:**

Test Org.	Eff. Conc.	Test Number											
		(1)			(2)			(3)			(4)		
		Sur	Rep	Gro	Sur	Rep	Gro	Sur	Rep	Gro	Sur	Rep	Gro
C.d.													
P.p.													

**2B. SUMMARY OF RESULTS FOR DEFINITIVE TEST:**

Test Organism	Test Solution Concentration (%)						LC50	NOEC	Not Determined

**3. LABORATORY ANALYSIS OF UNDILUTED SAMPLES:**

Sample ID	BOD5 mg/L	Chlorides mg/L	DO mg/L	pH su	Alk mg/L	Hard mg/L	Spec Cond umhos/cm		

Chemical Analysis Performed By (LAB):

Instantaneous Flow: (1) GPM (2) GPM (3) GPM (4) GPM  
Total 24-Hour Flow: (1) MGD (2) MGD (3) MGD (4) MGD

Comments:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**SIGNATURE OF RESPONSIBLE OFFICIAL:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

Facility Name:

NPDES #:

DSN:

Date:

**4. SAMPLE COLLECTION:**

Split Samples: N/A Yes (explain)

Samples Collected as Specified in the NPDES Permit: Yes No (explain)

Receiving Water: Design Flow: (MGD)

Sample ID	Sample(s) Collected MM/DD/YY HHMM - MM/DD/YY HHMM	Arrival Temp (C)	Used in Test(s) MM/DD/YY - MM/DD/YY

**5. CONTROL / DILUTION WATER:**

Type	Prepared MM/DD/YY	Begin Use MM/DD/YY	Initial Water Chemistries				
			Hard.	Alk.	pH	Cond.	@ C

**6. TOXICITY TEST INFORMATION:**

Test Species	Organism Age	Organism Source	Test Solution Concentrations (%)					

Test Species	Test Vessel Type	Vessel Vol. (mL)	Solution Vol. (mL)	Org. / Test Vessel	Replicates per Conc.

Test Species	Temp. Range (C)	D.O. Range (mg/L)	pH Range (mg/L)	Light Intensity Avg. (ft-c)

**7. FEEDING:**

Not Fed: Fed Daily: Fed Irregular: (Explain in comments below)

Brine Shrimp: Fed mL Suspension of Newly Hatched Larvae Times Daily.  
YCT: Fed mL Suspension Containing mg/L TSS Daily.  
Algae: Fed ML Suspension Containing Algal Cells/mL Daily.

COMMENTS:

Facility Name:

NPDES #:

DSN:

Date:

**8. REFERENCE TOXICANT TESTS:**

Toxicant:

Source:

CAS#:

Solution concentration unit: mg/L \_\_\_ g/L \_\_\_ % \_\_\_ other (specify): \_\_\_\_\_

Test Org.	Test Date MM/DD - MM/DD	Control Water	Reference Test Solution Concentrations (Cont. to Highest Conc.)						

Test Org.	Results	95% Confidence Interval	Upper and Lower CUSUM Chart Control Limit (This Test)	Number (N)

**9. TEST CONDITION VARIABILITY:**

**9.A. Deviations From Standard Test Conditions:**

**9.B. Test Solution Manipulations or Test Modifications:**

**10. REQUIRED REPORT ATTACHMENTS:**

Attach copies of Chain-of-Custody Forms, Reference Toxicant Tests, and Raw Data (Bench Sheets) Pertaining to Physical, Chemical, and Biological Measurements for All Tests. Include Suspended, Interrupted, or Discontinued Toxicity Tests Data.

COMMENTS:

Facility Name:

NPDES #:

DSN:

Date:

**11.A. ACUTE SCREENING TOXICITY TESTS RESULTS (Freshwater):**

**TEST ORGANISM:** \_\_\_\_\_

**ACUTE TOXICITY INDICATED: YES** \_\_\_\_ **NO** \_\_\_\_

**NO ACUTE STATISTICAL ANALYSIS NECESSARY:** \_\_\_\_

SOLUTION CONC.(%)			
MORTALITY (%)			

**PERMITTED MORTALITY RATE (%)**: \_\_\_\_

Normally Distributed: YES \_\_\_\_ NO \_\_\_\_

Test Statistic: \_\_\_\_ Critical Value: \_\_\_\_

(Parametric)

Equal variance: \_\_\_\_ Unequal variance: \_\_\_\_

F Statistic: \_\_\_\_ Critical F: \_\_\_\_

t - Test Statistic: \_\_\_\_ t - Test Critical Value: \_\_\_\_

Sample Rank Sum: \_\_\_\_ # Reps.: \_\_\_\_ Critical Rank Sum: \_\_\_\_

(Non - Parametric)

**COMMENTS:**

**TEST ORGANISM:** \_\_\_\_\_

**ACUTE TOXICITY INDICATED: YES** \_\_\_\_ **NO** \_\_\_\_

**NO ACUTE STATISTICAL ANALYSIS NECESSARY:** \_\_\_\_

SOLUTION CONC.(%)			
MORTALITY (%)			

**PERMITTED MORTALITY RATE (%)**: \_\_\_\_

Normally Distributed: YES \_\_\_\_ NO \_\_\_\_

Test Statistic: \_\_\_\_ Critical Value: \_\_\_\_

(Parametric)

Equal variance: \_\_\_\_ Unequal variance: \_\_\_\_

F Statistic: \_\_\_\_ Critical F: \_\_\_\_

t - Test Statistic: \_\_\_\_ t - Test Critical Value: \_\_\_\_

Sample Rank Sum: \_\_\_\_ # Reps.: \_\_\_\_ Critical Rank Sum: \_\_\_\_

(Non - Parametric)

**COMMENTS:**

Facility Name: NPDES #: DSN: Date:

**11.C. CHRONIC SCREENING TOXICITY TESTS RESULTS (Freshwater):**

**TEST ORGANISM:** *Ceriodaphnia dubia*

Were Neonates Used to Begin the Test Within 8 Hours of the Same Age ?:

Did 60% of the CONTROL Females Produce Their Third Brood ? : Yes: \_\_\_\_ No: \_\_\_\_

**SURVIVAL**

**CHRONIC TOXICITY INDICATED:** YES \_\_\_\_ NO \_\_\_\_

NO SURVIVAL STATISTICAL ANALYSIS NECESSARY:

CONTROL(%) 24h \_\_\_\_ 48h \_\_\_\_ END \_\_\_\_ EFFLUENT(%) 24h \_\_\_\_ 48h \_\_\_\_ END \_\_\_\_  
Fishers Exact Test: A = \_\_\_\_ B = \_\_\_\_ a = \_\_\_\_ b = \_\_\_\_

**REPRODUCTION** (Average Neonates/Female)

**CHRONIC TOXICITY INDICATED:** YES \_\_\_\_ NO \_\_\_\_

CONTROL: \_\_\_\_ EFFLUENT: \_\_\_\_  
NO REPRODUCTION STATISTICAL ANALYSIS NECESSARY:

Normally Distributed: YES \_\_\_\_ NO \_\_\_\_  
Test Statistic: \_\_\_\_ Critical Value: \_\_\_\_ (Parametric)  
Equal variance: \_\_\_\_ Unequal variance: \_\_\_\_  
F Statistic: \_\_\_\_ Critical F: \_\_\_\_  
t - Test Statistic: \_\_\_\_ t - Test Critical Value: \_\_\_\_  
Sample Rank Sum: \_\_\_\_ # Reps.: \_\_\_\_ Critical Rank Sum: \_\_\_\_ (Non - Parametric)

COMMENTS:

TEST ORGANISM: *Pimephale promelas*

**SURVIVAL**

**CHRONIC TOXICITY INDICATED:** YES \_\_\_\_ NO \_\_\_\_

NO SURVIVAL STATISTICAL ANALYSIS NECESSARY:

CONTROL(%) 24h \_\_\_\_ 48h \_\_\_\_ END \_\_\_\_ EFFLUENT(%) 24h \_\_\_\_ 48h \_\_\_\_ END \_\_\_\_  
Normally Distributed: YES \_\_\_\_ NO \_\_\_\_  
Test Statistic: \_\_\_\_ Critical Value: \_\_\_\_ (Parametric)  
Equal variance: \_\_\_\_ Unequal variance: \_\_\_\_  
F Statistic: \_\_\_\_ Critical F: \_\_\_\_  
t - Test Statistic: \_\_\_\_ t - Test Critical Value: \_\_\_\_  
Sample Rank Sum: \_\_\_\_ # Reps.: \_\_\_\_ Critical Rank Sum: \_\_\_\_ (Non - Parametric)

**GROWTH** (Mean Dry Weight - mg)

**CHRONIC TOXICITY INDICATED:** YES \_\_\_\_ NO \_\_\_\_

CONTROL: \_\_\_\_ EFFLUENT: \_\_\_\_  
NO GROWTH STATISTICAL ANALYSIS NECESSARY:

Normally Distributed: YES \_\_\_\_ NO \_\_\_\_  
Test Statistic: \_\_\_\_ Critical Value: \_\_\_\_ (Parametric)  
Equal variance: \_\_\_\_ Unequal variance: \_\_\_\_  
F Statistic: \_\_\_\_ Critical F: \_\_\_\_  
t - Test Statistic: \_\_\_\_ t - Test Critical Value: \_\_\_\_  
Sample Rank Sum: \_\_\_\_ # Reps.: \_\_\_\_ Critical Rank Sum: \_\_\_\_ (Non - Parametric)

COMMENTS: